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SI Tanifuji, T Kikuchi, JI Takimoto, K Koyama - Polymer Engineering and Science(USA), 2000 - doi.wiley.com
... They concluded that a detailed **finite element analysis** would be required ... assumed to be neghgible, and **Ogden**'s model ... (17) presented a FEM **simulation** using Pol ...
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D Peric, DRJ Owen - Rep. Prog. Phys, 1998 - iop.org
... encountered in the finite-element **simulation** of finite ... advances made in the **finite-element analysis** of nonlinear ... the continuum mechanics literature (**Ogden** 1984 ...
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A general procedure for the direct computation of turning and bifurcation points
P Wriggers, JC Simo - International Journal for Numerical Methods in Engineering, 1990 - doi.wiley.com
... BASIC EQUATIONS In this section we summarize some standard notation in non-linear **finite element analysis** needed for our subsequent developments. ...
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Finite element **simulation** of geogrid manufacture using large deformation elastic formulation - group of 5 »
P Caton-Rose, J Sweeney, TLD Collins, PD Coates - Plastics, Rubber and Composites, 2000 - hfes.publisher.ingentaconnect.com

... Sweeney and Ward2 used a one term **Ogden** theory ... has been incorporated into a **finite element analysis** scheme and ... FE **simulation** of geogrid manufacture using large ...
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M Brocca, ZÄP BaÄzant - doi.wiley.com
... **Finite element analysis** of the response of concrete structures to impact events such as missile pen- etration, explosive driving of anchors, blast, ground ...
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In vivo validation of a one-dimensional finite element method for **simulation**-based medical planning ...
BN Steele, CA Taylor, J Wan, JP Ku, TJR Hughes - Engineering in Medicine and Biology Society, 2001. ..., 2001 - ieeexplore.ieee.org
... These methods utilize compulationally intensive three- dimensional **finite element analysis**. We recently described a new method for **simulation**-based medical ...
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A Simplified **Rubber** Model with Damage
S Kolling, PA Du Bois, DJ Benson - dynamore.de
... E-Mail: **paul.dubois**@gmx.net ... Material Modelling, **Rubber**, Hyperelasticity, Strain-rate Dependency, Elastic Damage, Explicit Finite Element Method Crash II ...
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LS-DYNA3D Theoretical Manual
JO Hallquist - Livermore Software Technology Corporation, Livermore, 1993 - nsysu.edu.tw
... a general **rubber** material model; unique penalty specifications ... thereby introducing finite element users everywhere in the world to ... Klaus Weimar of CAD-**FEM**, Prof ...
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On Constitutive Equations For Elastomers And Elastomeric Foams - group of 3 »
WW Feng, JO Hallquist - e-dyna.de
... Mooney-Rivlin [3] and many currently used constitutive equations for **rubber**- like material ... Therefore, it could not be implemented into finite element codes. ...
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Drop/impact simulation and test validation of telecommunicationproducts
J Wu, G Song, CP Yeh, K Wyatt - Thermal and Thermomechanical Phenomena in Electronic Systems ..., 1998 - ieeexplore.ieee.org
... study of **FEM** in universities where the ... Validation To validate simulation and refine finite element models ... The drop frame is stopped by **rubber** blocks fixed at a ...
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K Carney, M Melis, E Fasanella, K Lyle, J Gabrys - Proceedings of - feainfo.com
... there had been no explicit finite element analysis performed ... Paul Dubois, Jim Day, and **John Hallquist** (LSTC ... Approach to the Simulation of **Rubber**-Like Material ...
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S Entwicklung, B im Auftrag - cad-**fem**.de
... If you cant wait to apply finite element technology in its full ... **FEM**-Software: Dr.-Ing ... 5 Dr. John Swanson, Dr. Richard MacNeal, and Dr. **John Hallquist** at the ...
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Evaluation of the derivatives of the strain energy function with respect to strain invariants for ... - group of 2 »
PA Kakavas - Polymer Engineering & Science, 2001 - doi.wiley.com
... Most of the **Finite Element** codes (12-14) concerning the numerical evaluation of stress distribution of **rubber**-like materials are based on the Mooney-Rvlin ...
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Evaluation of the derivatives of the strain energy function with respect to strain invariants for ... - group of 2 »
PA Kakavas - Polymer Engineering & Science, 2001 - doi.wiley.com
... using a Neo-Hookean strain energy function was determined by Kakavas (5). In previous studies the material used was made by nitrile **rubber** either unfilled or ...
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8	BRS	L8	3	(Ogden adj function)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:24
9	BRS	L9	0	((Ogden) same (stress adj function))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:24
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13	BRS	L13	27	703/6.ccls. and stress and (rubber or plastic$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:28
14	BRS	L14	51758	(model$3 or simulat$3) same (rubber or plastic$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:28
15	BRS	L15	1949	((model$3 or simulat$3) same (rubber or plastic$2) same stress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:28

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16	BRS	L16	524	((model$3 or simulat$3) same (rubber or plastic$2) same stress same strain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:29
17	BRS	L17	55	((model$3 or simulat$3) same (rubber or plastic$2) same stress same strain same stretch$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:29
18	BRS	L18	18	((simulat$3) same (rubber or plastic$2) same stress same strain same stretch$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:30
19	BRS	L19	33	(simulation and rubber).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:31
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22	BRS	L22	4	(finite adj element) same (rubber or plastic) same stretch$3 same strain	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:33
23	BRS	L23	137	(finite adj element) same polymers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:33
24	BRS	L24	7	((finite adj element) same polymers) and "703"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2006/08/24 17:34

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1 Code generation for hybrid mixed mode formulation in finite element analysis

Paul S. Wang, Hui-Qian Tan, Atef F. Saleeb, Tse-Yung P. Chang
October 1986 **Proceedings of the fifth ACM symposium on Symbolic and algebraic computation**
Publisher: ACM Press

Full text available: pdf(610.56 KB) Additional Information: full citation, abstract, references, index terms, review

Recently developed techniques for the symbolic derivation of formulas and the automatic generation of code for numerical computation are applied to formulate the hybrid mixed model in finite element analysis. The hybrid mixed model is a promising approach to overcome several difficulties associated with the more traditional displacement models for the analysis of "constrained-media" problems. Applying the FINGER (FINite element GEneratoR) system, FORTRAN code has been ge ...

2 A computer architecture for dynamic finite element analysis

L. M. Napolitano
June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture ISCA '86**, Volume 14 Issue 2
Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(910.76 KB) Additional Information: full citation, abstract, references, index terms

The explicit finite element method for dynamic structural analysis can be expressed in a highly parallel form. A proposed architecture is described that addresses the fundamental algorithmic issues of the method. An approximation equation for the efficiency is given as a function of processing time for a single element, the fundamental interprocessor communication time, the number of processors, and the number of finite elements. The predicted speedups are plotted against postulated paralle ...

3 Geometric representations and applications: Automated mixed dimensional modelling for the finite element analysis of swept and revolved CAD features

T T Robinson, C G Armstrong, G McSparron, A Quenardel, H Ou, R M McKeag
June 2006 **Proceedings of the 2006 ACM symposium on Solid and physical modeling SPM '06**
Publisher: ACM Press

Full text available: pdf(2.32 MB) Additional Information: full citation, abstract, references

Thin-walled aerospace structures can be idealised as dimensionally reduced shell models.

These models can be analysed in a fraction of the time required for a full 3D model yet still provide remarkably accurate results. The disadvantages of this approach are the time taken to derive the idealised model, though this is offset by the ease and rapidity of design optimisation with respect to parameters such as shell thickness, and the fact that the stresses in the local 3D details can not be resolve ...

4 IPSAP: A High-performance Parallel Finite Element Code for Large-scale Structural Analysis Based on Domain-wise Multifrontal Technique

Seung Jo Kim, Chang Sung Lee, Jeong Ho Kim, Minsu Joh, Sangsan Lee
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(221.09 KB) Additional Information: full citation, abstract

Most of researches for large-scale parallel structural analysis have focused on iterative solution methods since direct solution methods generally have many difficulties and disadvantages for large-scale problems. However, due to the numerical robustness of direct methods that guarantees the solution to be obtained within estimated time, direct methods are much more desirable for general application of large-scale structural analysis, if the difficulties and disadvantages can be overcome. In thi ...

5 Parallel preprocessing and postprocessing in finite-element analysis on a multiprocessor computer

P. S. Tseng, Kai Hwang
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**
Publisher: IEEE Computer Society Press
Full text available: pdf(657.24 KB) Additional Information: full citation, references, index terms

6 Finite element analysis using advanced processors

Graham F. Carey, E. Barragy
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**
Publisher: IEEE Computer Society Press
Full text available: pdf(475.20 KB) Additional Information: full citation, references, index terms

7 A generalized graphic preprocessor for two-dimensional finite element analysis

Robert Haber, Mark Shephard, John Abel, Richard Gallagher, Donald Greenberg
August 1978 **ACM SIGGRAPH Computer Graphics , Proceedings of the 5th annual conference on Computer graphics and interactive techniques SIGGRAPH '78**, Volume 12 Issue 3
Publisher: ACM Press
Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms

Input preprocessors have come to be recognized as important components of modern finite element programs. A method is described which utilizes interactive computer graphics digitizing techniques to create a powerful input preprocessor for finite element analysis. A limited number of general mesh generators based on linear blending functions permit the program to handle virturally all two-dimensional topologies. The processes of geometric input and specification of problem-specific "at ...

Keywords: Computer graphics, Finite element preprocessing, Mesh generation, Structural analysis

8 Applications of Algebraic Multigrid to Large-Scale Finite Element Analysis of Whole Bone Micro-Mechanics on the IBM SP

Mark F. Adams, Harun H. Bayraktar, Tony M. Keaveny, Panayiotis Papdopoulos
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(955.16 KB) Additional Information: full citation, abstract

Accurate micro-finite element analyses of whole bones require the solution of large sets of algebraic equations. Multigrid has proven to be an effective approach to the design of highly scalable linear solvers for solid mechanics problems. We present some of the first applications of scalable linear solvers, on massively parallel computers, to whole vertebral body structural analysis. We analyze the performance of our algebraic multigrid (AMG) methods on problems with over 237 million degrees of ...

Keywords: multigrid, trabecular bone, human vertebral body, finite element method, massively parallel computing

9 A node-addition model for symbolic factorization

Kincho H. Law, Steven J. Fenives
March 1986 **ACM Transactions on Mathematical Software (TOMS)**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(966.95 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A symbolic node-addition model for matrix factorization of symmetric positive definite matrices is described. In this model, the nodes are added onto the filled graph one at a time. The advantage of the node-addition model is its simplicity and flexibility. The model can be immediately incorporated into finite element analysis programs. The model can also be extended to determine modification patterns in the matrix factors due to changes in the original matrix. For a given matrix K< ...

10 Panels: Applying 3D visualization techniques to finite element analysis

Richard S. Gallagher, Robert B. Haber, Gordon Ferguson, David Parker, Douglas W. Stillman, James Winget
October 1991 **Proceedings of the 2nd conference on Visualization '91**
Publisher: IEEE Computer Society Press
Full text available: pdf(451.47 KB) Additional Information: full citation, references, citings

11 An efficient 3-D visualization technique for finite element models and other coarse volumes

R. S. Gallagher, J. C. Nagtegaal
July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH '89**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: pdf(6.74 MB) Additional Information: full citation, abstract, references, citings, index terms

We have developed a technique that extends existing 3-D result visualization methods for use with discretized volumes such as finite element models, where result values are only available at coarsely spaced points throughout the volume. It represents results as smooth isosurfaces within the volume for one or more result values, using visually

continuous, bi-cubic polynomials.At each of the points where results are available, result gradients are calculated by a finite difference procedure. The r ...

12 Finite element mesh generation employing satellite graphics

Sze-Keung Lee, Walter S. Reed
June 1976 **Proceedings of the 13th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(496.59 KB) Additional Information: full citation, abstract, references, index terms

The use of a satellite graphics system is presented as an approach to preprocessing finite element analysis data. The paper discusses the use of curved isoparametric shape functions as the basis of finite element mesh generation and the effects this approach has on the design of a system to support these activities. A minicomputer based design system is presented and its application to a practical three dimensional mesh generation problem is demonstrated.

13 The prediction of pathologic fracture in patients with metastatic cancer

E. Buturla, C. Hawkins, D. Seligson, M. H. Pope
March 1983 **Proceedings of the 16th annual symposium on Simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(388.26 KB) Additional Information: full citation, abstract, references, index terms

PATHOLOGICAL FRACTURES RESULTING FROM NEOPLASMS WITHIN THE FEMUR ARE DISASTROUS TO ALL PARTIES INVOLVED AND IN MANY CASES COULD BE AVOIDED GIVEN EARLY DETECTION AND PREDICTIVE VALIDITY WITH RESPECT TO THE EXTENT OF THE LESION. IN PARTICULAR, PATHOLOGICAL FRACTURES OCCUR IN THE SUB- AND INTERTROCHANTERIC REGIONS OF THE FEMUR AS THESE ARE REGIONS OF UNIQUE STRESS CONCENTRATIONS AND FREQUENT SITES OF METASTASES. APPLICATION OF FINITE ELEMENT MODELING HAS PROVIDED GREATER UNDERSTANDI ...

14 A conceptual design environment for micromechanisms

T. Kiriyama, N. Nakajima, S. Yoshimura, S. Burgess, D. Moore, N. Shibaike
March 1996 **Proceedings of the 1996 European conference on Design and Test**
Publisher: IEEE Computer Society
Full text available: pdf(737.11 KB) Publisher Site Additional Information: full citation, abstract, citings

This paper presents the use of a knowledge based system and a knowledge sharing environment to support the design of micromechanisms. Based on the experience of a design project, we discuss knowledge representation concerning the function and behavior for supporting functional decomposition. For the knowledge sharing environment, we have extended a finite element analysis system to allow the designer to perform analysis over the network.

Keywords: CAD, FEA system, FEM, SYSFUND, electronic engineering computing, finite element analysis, functional decomposition, knowledge based system, knowledge based systems, knowledge representation, knowledge sharing environment, micromechanical devices, micromechanisms

15 Implementing finite element software on hypercube machines

G. A. Lyzenga, A. Raefsky, B. Nour-Omid
January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**
Publisher: ACM Press
Full text available: Additional Information:

pdf(722.70 KB) full citation, references, citings, index terms

16 Navigating through triangle meshes implemented as linear quadtrees

Michael Lee, Hanan Samet
April 2000 **ACM Transactions on Graphics (TOG)**, Volume 19 Issue 2
Publisher: ACM Press
Full text available: pdf(235.90 KB) Additional Information: full citation, abstract, references, index terms

Techniques are presented for navigating between adjacent triangles of greater or equal size in a hierarchical triangle mesh where the triangles are obtained by a recursive quadtree-like subdivision of the underlying space into four equilateral triangles. These techniques are useful in a number of applications, including finite element analysis, ray tracing, and the modeling of spherical data. The operations are implemented in a manner analogous to that used in a quadtree representation of d ...

Keywords: data structures, finite element analysis, hierarchical methods, neighbor finding, ray tracing, spherical modeling, triangle meshes

17 Computers, complexity, and the Statue of Liberty restoration

Karen A. Frenkel
April 1986 **Communications of the ACM**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(2.11 MB) Additional Information: full citation, abstract, index terms, review

Twentieth-century techniques such as computer-aided engineering and finite-element analysis were used to restore the nineteenth-century monument.

18 Applying object-oriented design to finite element programming

Jun Lu, Donald White, Wai-Fah Chen
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**
Publisher: ACM Press
Full text available: pdf(577.14 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: finite element analysis, object-oriented programming

19 Layered tetrahedral meshing of thin-walled solids for plastic injection molding FEM

Soji Yamakawa, Charles Shaw, Kenji Shimada
June 2005 **Proceedings of the 2005 ACM symposium on Solid and physical modeling**
Publisher: ACM Press
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a method for creating a well-shaped, layered tetrahedral mesh of a thin-walled solid by adapting the surface triangle sizes to the estimated wall thickness. The primary target application of the method is the finite element analysis of plastic injection molding, in which a layered mesh improves the accuracy of the solution. The edge lengths of the surface triangles must be proportional to the thickness of the domain to create well-shaped tetrahedrons; when the edge lengths a ...

Keywords: finite element method, plastic injection molding, tetrahedral mesh

20 The white dwarf: a high-performance application-specific processor

A. Wolfe, M. Breternitz, C. Stephens, A. L. Ting, D. B. Kirk, R. P. Bianchini, J. P. Shen

May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture ISCA '88**, Volume 16 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design and implementation of a high-performance special-purpose processor, called The White Dwarf, for accelerating finite element analysis algorithms. The White Dwarf CPU contains two Am29325 32-bit floating-point processors and one Am29332 32-bit ALU, and employs a wide-instruction word architecture in which the application algorithm is directly implemented in microcode. The entire system is VME-bus compatible and interfaces with a SUN 31160 host. The syste ...

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